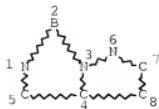


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NODE ATTRIBUTES:
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 DEFAULT ELEVEL IS LIMITED

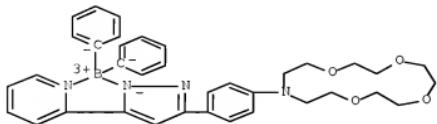
GRAPH ATTRIBUTES:
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STEREO ATTRIBUTES: NONE
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 L14 4 SEA FILE=HCAPLUS ABB=ON PLU=ON L13

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L14 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2005:1307141 HCAPLUS Full-text
 DOCUMENT NUMBER: 144:265998
 TITLE: Design and synthesis of iridium(III) azacrown
 complex: application as a highly sensitive metal
 cation phosphorescence sensor
 AUTHOR(S): Ho, Mei-Ling; Hwang, Fu-Ming; Chen, Pei-Nung; Hu,
 Ya-Hui; Cheng, Yi-Ming; Chen, Kung-Shih; Lee,
 Gene-Hsiang; Chi, Yun; Chou, Pi-Tai
 CORPORATE SOURCE: Department of Chemistry, National Taiwan
 University, Taipei, 106, Taiwan
 SOURCE: Organic & Biomolecular Chemistry (2006), 4(1),
 98-103
 CODEN: OBCRAK; ISSN: 1477-0520
 PUBLISHER: Royal Society of Chemistry
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 144:265998
 ED Entered STN: 15 Dec 2005
 AB A new metal cation probe 1 bearing a central Ir(III) element and 1-aza-15-
 crown-5-ether substituted pyridyl pyrazolate as the chelate was synthesized.
 The octahedral mol. structure of 1 was confirmed using single crystal x-ray
 diffraction analyses. Subsequent photophys. study showed yellow-green
 emission at .apprx.560 nm in both fluid solution and solid state at room
 temperature. Remarkable differentiation in spectral properties upon metal
 cation (e.g. Ca²⁺) complexation makes complex 1 a highly sensitive
 phosphorescence probe.
 IT 877467-43-1P

(preparation and properties of)
 RN 877467-43-1 HCAPLUS
 CN Boron, diphenyl[13-[4-[5-(2-pyridinyl- κ N)-1H-pyrazol-3-yl- κ N]phenyl]-1,4,7,10-tetraoxa-13-azacyclopentadecanato]-, (T-4)-
 (CA INDEX NAME)



CC 79-3 (Inorganic Analytical Chemistry)
 IT 877467-42-0P 877467-43-1P

(preparation and properties of)

REFERENCE COUNT: 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR
 THIS RECORD. ALL CITATIONS AVAILABLE IN THE
 RE FORMAT

L14 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2004:803045 HCAPLUS Full-text

DOCUMENT NUMBER: 1411:322273

TITLE: Boron complexes and their preparation and

electroluminescent devices employing them

INVENTOR(S): Kathirgamanathan, Poopathy; Kirkham, Matthew
 Samuel; Lay, Alexander Kit; Ganeshamurugan,
 Subramaniam; Paramaswara, Gnanamoly; Kumaraveri,
 Muttulingam; Partheepan, Arumugam; Selvaranjan,
 Selvadurai; Antipan-lara, Juan; Price, Richard;
 Surendrakumar, Sivagnanasumudram

PATENT ASSIGNEE(S): Elam-T Limited, UK

SOURCE: PCT Int. Appl., 59 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

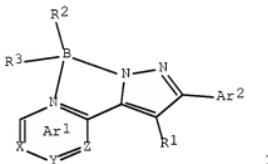
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004084325	A1	20040930	WO 2004-GB1079	20040312
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

EP 1620905	A1	20060201	EP 2004-720060	20040312
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
JP 2006520772	T	20060914	JP 2006-505961	20040312
US 2007042219	A1	20070222	US 2005-549430	20050915
PRIORITY APPLN. INFO.:				
GB 2003-6097 A 20030315				

WO 2004-GB1079 W 20040312

OTHER SOURCE(S): MARPAT 141:322273
 ED Entered STN: 01 Oct 2004
 GI



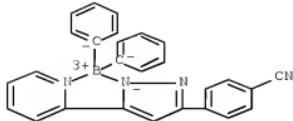
AB Boron complexes are described by the general formula I (Ar = (un)substituted monocyclic or polycyclic heteroaryl with a ring N for forming a coordination bond to B as indicated and optionally ≥ 1 addnl. ring N subject to the proviso that Ns do not occur in adjacent positions; X and Z = C or N; Y = C or optionally N if neither of X and Z = N; the substituents if present being (un)substituted hydrocarbyl, (un)substituted hydrocarbyloxy, fluorocarbon, halo, nitrile, aminoalkylamino, dialkylamino, or thiophenyl; Ar2 = monocyclic or polycyclic aryl or heteroaryl substituted with ≥ 0 substituents selected from (un)substituted hydrocarbyl, (un)substituted hydrocarbyloxy, fluorocarbon, halo, nitrile, amino, alkylamino, dialkylamino or thiophenyl; R1 = H, (un)substituted hydrocarbyl, halo hydrocarbyl or halo; and R2 and R3 = independently selected alkyl, cycloalkyl, cycloalkylalkyl, haloalkyl, halo or monocyclic or polycyclic aryl, heteroaryl, aralkyl, or heteroaralkyl optionally substituted with ≥ 1 alkyl, cycloalkyl, cycloalkylalkyl, haloalkyl, aryl, aralkyl, alkoxy, aryloxy, halo, nitrile, amino, alkylamino, or dialkylamino group). Methods of preparing the compds. are described which entail condensing a diketone with hydrazine to give a pyrazole and esterifying the pyrazole with an acid described by the general formula R2R3BOH or an anhydride described by the general formula R2R3BOBR3R2. Electroluminescent devices employing the compds. are also described.

IT 767340-42-1 767340-43-2 767340-44-3
 767340-45-4 767340-46-5 767340-47-6
 767340-48-7 767340-49-8

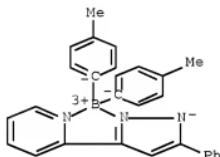
(boron complexes and their preparation and electroluminescent devices employing them)

RN 767340-42-1 HCAPLUS

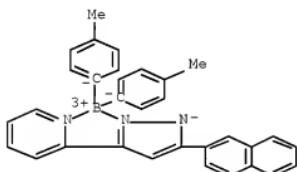
CN Boron, diphenyl[4-[5-(2-pyridinyl- κ N)-1H-pyrazol-3-yl- κ N]benzonitrilato]-, (T-4)- (CA INDEX NAME)



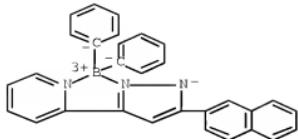
RN 767340-43-2 HCPLUS
 CN Boron, bis(4-methylphenyl)[2-(5-phenyl-1H-pyrazol-3-yl-
 κN2)pyridinato-κN]-, (T-4)- (CA INDEX NAME)



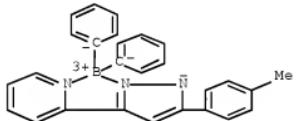
RN 767340-44-3 HCPLUS
 CN Boron, bis(4-methylphenyl)[2-[5-(2-naphthalenyl)-1H-pyrazol-3-yl-
 κN2]pyridinato-κN]-, (T-4)- (CA INDEX NAME)



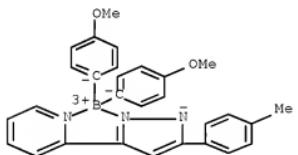
RN 767340-45-4 HCPLUS
 CN Boron, [2-[5-(2-naphthalenyl)-1H-pyrazol-3-yl-κN2]pyridinato-
 κN]diphenyl-, (T-4)- (CA INDEX NAME)



RN 767340-46-5 HCPLUS

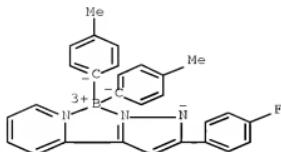
CN Boron, [2-[5-(4-methylphenyl)-1H-pyrazol-3-yl- κ N2]pyridinato- κ N]diphenyl-, (T-4)- (CA INDEX NAME)

RN 767340-47-6 HCPLUS

CN Boron, bis(4-methoxyphenyl)[2-[5-(4-methylphenyl)-1H-pyrazol-3-yl- κ N2]pyridinato- κ N]-, (T-4)- (CA INDEX NAME)

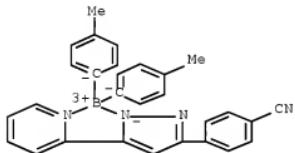
RN 767340-48-7 HCPLUS

CN Boron, [2-[5-(4-fluorophenyl)-1H-pyrazol-3-yl- κ N2]pyridinato- κ N]bis(4-methylphenyl)-, (T-4)- (CA INDEX NAME)



RN 767340-49-8 HCAPLUS

CN Boron, bis(4-methylphenyl)[4-[5-(2-pyridinyl-κN)-1H-pyrazol-3-yl-κN1]benzonitrilato]-, (T-4)- (CA INDEX NAME)

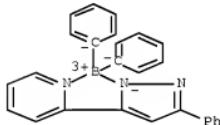


IT 671791-16-5 P 767340-41-0 P

(boron complexes and their preparation and electroluminescent devices employing them)

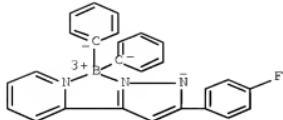
RN 671791-16-5 HCAPLUS

CN Boron, diphenyl[2-(3-phenyl-1H-pyrazol-5-yl-κN1)pyridinato-κN]-, (T-4)- (CA INDEX NAME)



RN 767340-41-0 HCAPLUS

CN Boron, [2-[5-(4-fluorophenyl)-1H-pyrazol-3-yl-κN2]pyridinato-κN1diphenyl-, (T-4)- (CA INDEX NAME)



IC ICM H01L051-30

ICS C09K011-06; H05B033-14; C07F005-02

CC 73-5 (Optical, Electron, and Mass Spectroscopy and Other Related Properties)

Section cross-reference(s): 29, 76

IT 767340-42-1 767340-43-2 767340-44-3

767340-45-4 767340-46-5 767340-47-6

767340-48-7 767340-49-8

(boron complexes and their preparation and electroluminescent devices employing them)

IT 671791-16-5P 767340-41-0P

(boron complexes and their preparation and electroluminescent devices employing them)

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 3 OF 4 HCPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:832625 HCPLUS Full-text

DOCUMENT NUMBER: 140:34915

TITLE: Synthesis and Characterization of Metal Complexes Possessing the 5-(2-Pyridyl) Pyrazolate Ligands: The Observation of Remarkable Osmium-Induced Blue Phosphorescence in Solution at Room Temperature

AUTHOR(S): Wu, Pei-Chi; Yu, Jen-Kan; Song, Yi-Hwa; Chi, Yun; Chou, Pi-Tai; Peng, Shie-Ming; Lee, Gene-Hsiang

CORPORATE SOURCE: Department of Chemistry, National Tsing Hua University, Hsinchu, Taiwan, 300, Peop. Rep. China

SOURCE: Organometallics (2003), 22(24), 4938-4946

CODEN: ORGND7; ISSN: 0276-7333

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 140:34915

ED Entered STN: 24 Oct 2003

AB A total of three distinctive main group and transition metal complexes containing the 2-pyridyl pyrazolate (pypy) ligand were prepared, namely, $[B(C_6F_5)_2(pypy)]$ (1), $[Ru(CO)_2(pypy)_2]$ (2), and $[Os(CO)_2(pypy)_2]$ (3), where $(pypy)H = 3$ -trifluoromethyl-5-(2-pyridyl)pyrazole. Single-crystal x-ray diffraction studies were carried out on complexes 2 and 3, revealing octahedral coordination geometry with two CO ligands located at cis dispositions. While the pypy ligand arrangement for complex 2 is in cis-(Npy,Npy) and trans-(Npz,Npz), complex 3 reveals a different configuration, cis-(Npz,Npz) and trans-(Npy,Npy) (Npy for pyridine-N and Npz for pyrazolate donor sites). Similar to that of the in-situ-prepared pypy anion, the boron complex $[B(C_6F_5)_2(pypy)]$ (1) exhibits a strong emission centered at 380 nm, which is unambiguously assigned to fluorescence derived from the $S_1(\pi\pi^*) \rightarrow S_0$ transition. In contrast to the nonluminescent behavior for Ru complex 2, the

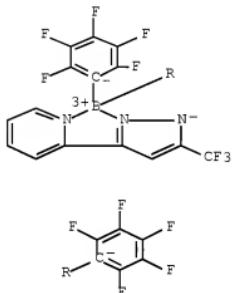
Os complex 3 displays unique, strong room-temperature phosphorescence, showing vibronic progressions at 430, 457, and 480 nm. The remarkable differences in photophys. properties were rationalized by a combination of π -electron accepting CO ligand, relative pypz orientation, and heavy-atom-enhanced spin-orbit coupling effects.

IT 634606-62-5P

(preparation and fluorescence)

RN 634606-62-5 HCAPLUS

CN Boron, bis(pentafluorophenyl)[2-[5-(trifluoromethyl)-1H-pyrazol-3-yl]pyridinato- κ N]-, (T-4)- (9CI) (CA INDEX NAME)



CC 78-7 (Inorganic Chemicals and Reactions)
Section cross-reference(s): 29, 73, 74, 75

IT 634606-62-5P

(preparation and fluorescence)

REFERENCE COUNT: 51 THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:792131 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 140:253602

TITLE: Syntheses and remarkable photophysical properties of 5-(2-pyridyl) pyrazolate boron complexes; photoinduced electron transfer

AUTHOR(S): Cheng, Chung-Chih; Yu, Wei-Shan; Chou, Pi-Tai; Peng, Shie-Ming; Lee, Gene-Hsiang; Wu, Pei-Chi; Song, Yi-Hwa; Chi, Yun

CORPORATE SOURCE: Department of Chemistry, Fu-Jen Catholic University, Shin Chuang, Taiwan

SOURCE: Chemical Communications (Cambridge, United Kingdom) (2003), (20), 2628-2629

CODEN: CHCOFS; ISSN: 1359-7345

PUBLISHER: Royal Society of Chemistry

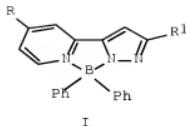
DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 140:253602

ED Entered STN: 10 Oct 2003

GI



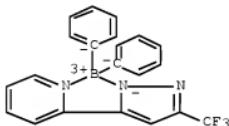
AB A new series of pyridyl pyrazolate boron complexes I (R1 = CF3, C2F5, Ph, t-Bu, R = H; R1 = CF3, R = Me) have been synthesized via reaction of 2'-(2-pyridyl)pyrazoles with BPh3 in THF. I exhibit remarkable dual fluorescence properties due to the photoinduced electron transfer reaction.

IT 671791-13-2P

(crystal structure; syntheses, photophys. properties, and photoinduced electron transfer of pyridyl pyrazolate boron complexes)

RN 671791-13-2 HCAPLUS

CN Boron, diphenyl[2-[3-(trifluoromethyl)-1H-pyrazol-5-yl-
κN1]pyridinato-κN]-, (T-4)- (CA INDEX NAME)



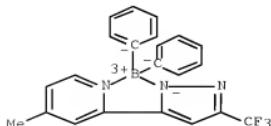
IT 671791-14-3P 671791-15-4P 671791-16-5P

671791-17-6P 671791-19-8P

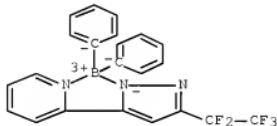
(syntheses, photophys. properties, and photoinduced electron transfer of pyridyl pyrazolate boron complexes)

RN 671791-14-3 HCAPLUS

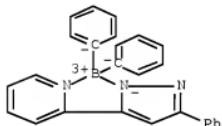
CN Boron, [4-methyl-2-[3-(trifluoromethyl)-1H-pyrazol-5-yl-
κN1]pyridinato-κN]diphenyl-, (T-4)- (CA INDEX NAME)



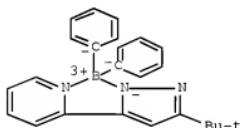
RN 671791-15-4 HCPLUS
 CN Boron, [2-(3-(pentafluoroethyl)-1H-pyrazol-5-yl- κ N1)pyridinato- κ N]diphenyl-, (T-4)- (9CI) (CA INDEX NAME)



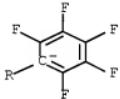
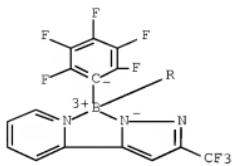
RN 671791-16-5 HCPLUS
 CN Boron, diphenyl[2-(3-phenyl-1H-pyrazol-5-yl- κ N1)pyridinato- κ N]-, (T-4)- (CA INDEX NAME)



RN 671791-17-6 HCPLUS
 CN Boron, [2-(3-(1,1-dimethylethyl)-1H-pyrazol-5-yl- κ N1)pyridinato- κ N]diphenyl-, (T-4)- (CA INDEX NAME)



RN 671791-19-8 HCPLUS
 CN Boron, bis(pentafluorophenyl)[2-(3-(trifluoromethyl)-1H-pyrazol-5-yl- κ N1)pyridinato- κ N]-, (T-4)- (9CI) (CA INDEX NAME)



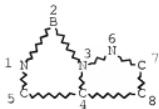
CC 29-4 (Organometallic and Organometalloidal Compounds)
 Section cross-reference(s): 22, 75

IT 671791-13-2P
 (crystal structure; syntheses, photophys. properties, and
 photoinduced electron transfer of pyridyl pyrazolate boron
 complexes)

IT 671791-14-3P 671791-15-4P 671791-16-5P
 671791-17-6P 671791-19-8P
 (syntheses, photophys. properties, and photoinduced electron
 transfer of pyridyl pyrazolate boron complexes)

REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR
 THIS RECORD. ALL CITATIONS AVAILABLE IN THE
 RE FORMAT

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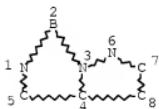


NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 8

STEREO ATTRIBUTES: NONE
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L15 0 SEA FILE=CAOLD ABB=ON PLU=ON L13

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L11 STR

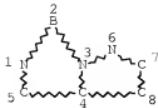


NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 8

STEREO ATTRIBUTES: NONE
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L17 0 SEA FILE=BEILSTEIN ARR=ON PLU=ON L13

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 L11 STR



NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
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 NUMBER OF NODES IS 8

STEREO ATTRIBUTES: NONE
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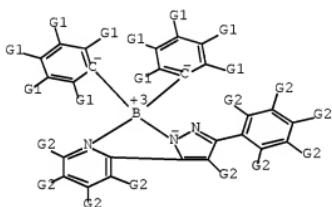
L20 ANSWER 1 OF 1 MARPAT COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1441222226 MARPAT Full-text
 TITLE: Electroluminescent materials and devices based on aromatic substituted anthracene dopants mixed with a host material
 INVENTOR(S): Kathirgamanathan, Poopathy
 PATENT ASSIGNEE(S): Elam-T Limited, UK
 SOURCE: PCT Int. Appl., 46 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006016176	A1	20060216	WO 2005-GB3173	20050812
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,			

ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 EP 1786885 A1 20070523 EP 2005-797974 20050812
 R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU,
 IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR
 US 2007252108 A1 20071101 US 2007-659919 20070210
 KR 2007042574 A 20070423 KR 2007-705636 20070309
 PRIORITY APPLN. INFO.: GB 2004-17927 20040812
 WO 2005-GB3173 20050812

AB Electroluminescent compns. are described which comprise a dopant which is an aromatic substituted anthracene compound mixed with a host material. Electroluminescent devices employing the electroluminescent compns. are also discussed.

MSTR 4



Patent location:

claim 10

Note:

additional ring formation also claimed

REFERENCE COUNT:

3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR
 THIS RECORD. ALL CITATIONS AVAILABLE IN THE
 RE FORMAT

=> d his nofile

(FILE 'HOME' ENTERED AT 10:50:22 ON 20 DEC 2007)

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 SEL RN

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 OR 671791-16-5/B1 OR 767340-41-0/B1 OR 767340-42-1/B1 OR
 767340-43-2/B1 OR 767340-44-3/B1 OR 767340-45-4/B1 OR
 767340-46-5/B1 OR 767340-47-6/B1 OR 767340-48-7/B1 OR
 767340-49-8/B1 OR 98-86-2/B1)
 L3 10 SEA ABB=ON PLU=ON L2 AND 1/B
 L4 STR
 L5 0 SEA SSS SAM L4

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 L8 STR L4
 L9 0 SEA SSS SAM L8
 L10 17 SEA ABB=ON PLU=ON 1341.1442/RID
 L11 STR L8
 L12 1 SEA SSS SAM L11
 L13 17 SEA SSS FUL L11
 SAV L13 GAR430/A

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 L15 0 SEA ABB=ON PLU=ON L13

FILE 'BEILSTEIN' ENTERED AT 10:58:54 ON 20 DEC 2007
 L16 0 SEA ABB=ON PLU=ON L13
 L17 0 SEA ABB=ON PLU=ON L13

FILE 'MARPAT' ENTERED AT 10:59:11 ON 20 DEC 2007
 L18 0 SEA SSS SAM L11
 L19 2 SEA SSS FUL L11
 L20 1 SEA ABB=ON PLU=ON L19 NOT